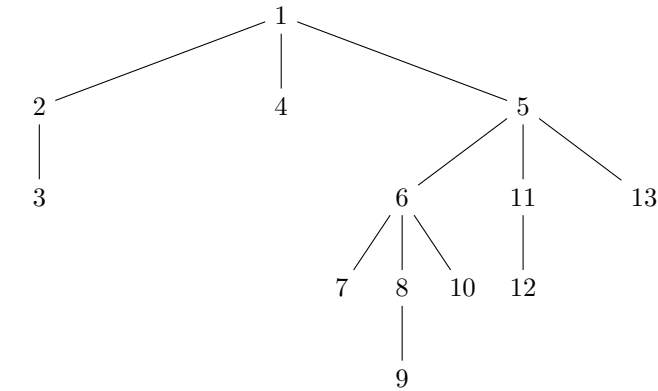


# NOTES ON STACKS AND DEPTH FIRST SEARCH

ERIC MARTIN



Popping a path from the top of the stack (right of list) and pushing its extensions to the top of the stack.

$[1]$

$[]$

$[1, 5], [1, 4], [1, 2]$

$[1, 5], [1, 4]$

$[1, 5], [1, 4], [1, 2, 3]$

$[1, 5], [1, 4]$

$[1, 5]$

$[]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6]$

$[1, 5, 13], [1, 5, 11]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6, 10], [1, 5, 6, 8], [1, 5, 6, 7]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6, 10], [1, 5, 6, 8]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6, 10]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6, 10], [1, 5, 6, 8, 9]$

$[1, 5, 13], [1, 5, 11], [1, 5, 6, 10]$

$[1, 5, 13], [1, 5, 11]$

$[1, 5, 13]$

$[1, 5, 13], [1, 5, 11, 12]$

$[1, 5, 13]$

$[]$

$[1]$

$[1, 2]$

$[1, 2, 3]$

$[1, 4]$

$[1, 5]$

$[1, 5, 6]$

$[1, 5, 6, 7]$

$[1, 5, 6, 8]$

$[1, 5, 6, 8, 9]$

$[1, 5, 6, 10]$

$[1, 5, 11]$

$[1, 5, 11, 12]$

$[1, 5, 13]$